

Creating beauty. Creating convenience. Creating pleasure. Photovoltaics can change our lives and change the look of the world around us. PV can have a powerful impact on our everyday lives, whether we're working or playing.

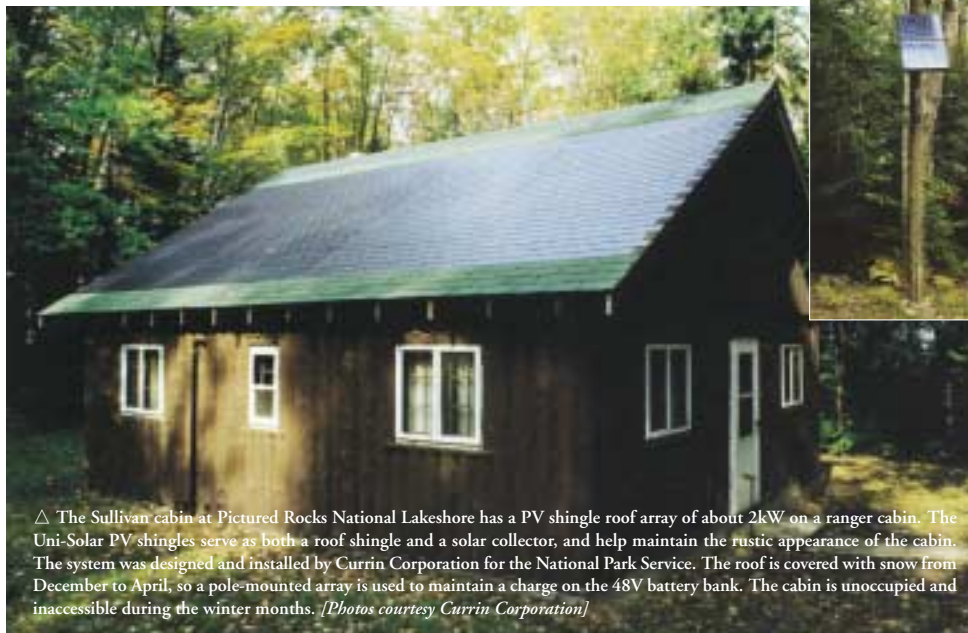
Solar-powered calculators and watches have more than two decades of successful history; in fact, that early application of PV is all but taken for granted today.

Photovoltaics has been incorporated into the total energy package at dozens of our national parks and monuments—places where we enjoy America's vast natural beauty. PV—a quiet, clean source of energy—is, in fact, used because it keeps America beautiful.

Now solar is being marketed in conjunction with other consumer products as well. Some of those are shown here, but only the future will tell what other uses there may be for PV-powered objects in our daily lives. Some predict that soon automobiles will all be equipped with PV on car roofs or hoods so that satellite links can supply 'video on demand for the back seat.'

The next two double-page spreads are dedicated to PV for recreational purposes or for enhancing everyday life.

Take a look around you. The possibilities are endless.



△ The Sullivan cabin at Pictured Rocks National Lakeshore has a PV shingle roof array of about 2kW on a ranger cabin. The Uni-Solar PV shingles serve as both a roof shingle and a solar collector, and help maintain the rustic appearance of the cabin. The system was designed and installed by Currin Corporation for the National Park Service. The roof is covered with snow from December to April, so a pole-mounted array is used to maintain a charge on the 48V battery bank. The cabin is unoccupied and inaccessible during the winter months. [Photos courtesy Currin Corporation]



▷ A 24V solar-powered water pumping system is located at the picnic area/trailhead at Pictured Rocks National Lakeshore, Grand Marais, Michigan. Called the Log Slide Pumphouse, the installation was designed by Currin Corporation and is contained in the kiosk structure that also serves as an information station and storage building. [Photo courtesy National Park Service]

◁ Small arrays such as this one by Kyocera Solar provide power wherever you need it—such as on a pleasure craft or fishing boat. [Photo courtesy Kyocera Solar, Inc.]

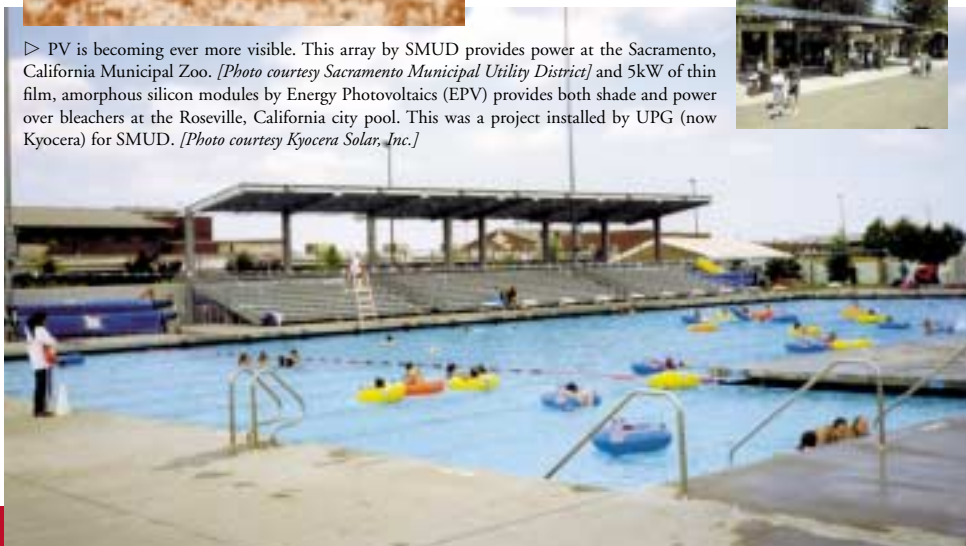
▷ A rather large market exists for small PV arrays to power lights and household appliances in recreational vehicles. Shown here are two Uni-Power US-21 modules used for battery charging in an RV. [Photo courtesy United Solar Systems Corp.]



▽ PV modules are roof mounted (to deter vandalism) on the General Nathan Twining Observatory located near Belen, New Mexico. The installation was designed and integrated by Energia Total, Corrales, New Mexico, through an Enchantment Energy Trust grant from Public Service Company of New Mexico. The array is capable of producing 90 watts of power. The Albuquerque Astronomical Society owns and operates the facility. *[Photo courtesy Michael Pendley]*



▷ PV is becoming ever more visible. This array by SMUD provides power at the Sacramento, California Municipal Zoo. *[Photo courtesy Sacramento Municipal Utility District]* and 5kW of thin film, amorphous silicon modules by Energy Photovoltaics (EPV) provides both shade and power over bleachers at the Roseville, California city pool. This was a project installed by UPG (now Kyocera) for SMUD. *[Photo courtesy Kyocera Solar, Inc.]*



△ This BP Solar Apollo® glass pavilion was created for the Cooper-Hewitt National Design Museum, part of the Smithsonian Institution, New York City. The pavilion is now a traveling exhibition showcased in major cities around the U.S. as part of "Under the Sun: An Outdoor Exhibition of Light," which focuses on innovative solar design and architecture. *[Photo courtesy BP Solar]*



▷ Solar-powered golf carts are used at the Mauna Lani Hotel, Kohala Coast, Hawaii. When a cart is at rest, PowerLight's SunCaddy charges the battery; and an integrated charge controller ensures that the batteries will not be overcharged. SunCaddy works on any golf cart through a simple roof-top installation. It has no moving parts and is designed for practically maintenance-free operation. *[Photo courtesy PowerLight Corporation]*